

Title (en)

Switching of conductor pair in power over ethernet system

Title (de)

Schalten eines Leiterpaars in einem "Power over Ethernet" System

Title (fr)

Dispositif de commutation un paire de conducteurs dans un système "Power over Ethernet"

Publication

EP 2587718 A1 20130501 (EN)

Application

EP 12007313 A 20121024

Priority

US 201161550655 P 20111024

Abstract (en)

Technique for providing power to a powered device (PD) over a cable having first (14,18) and second (16,20) sets of twisted pairs, such as signal pairs (14,18) and spare pairs (16,20). Power Sourcing Equipment (PSE) circuitry (220) is coupled via a first switch (240) to the second set, e.g. to the spare pairs (16,20). A switch control circuit (260) turns the first switch off to enable the PSE circuitry to perform a prescribed operation in connection with the PD over only the first set (14,18), e.g. over the signal pairs (14,18), and turns the first switch (240) on to enable the PSE circuitry (220) to perform the prescribed operation in connection with the PD over the first (14,18) and second (16,20) sets.

IPC 8 full level

H04L 12/10 (2006.01); **H04L 12/40** (2006.01)

CPC (source: EP KR US)

H02J 4/00 (2013.01 - US); **H04L 12/10** (2013.01 - EP KR US); **H04L 12/40045** (2013.01 - EP US)

Citation (search report)

- [X] GB 2448971 A 20081105 - CROUCH IAIN CHRISTOPHER [GB]
- [I] US 2007283173 A1 20071206 - WEBB RICHARD B [US], et al

Cited by

CN107409055A; EP3206331A4; EP2816759A1; US10466768B2; US9209981B2; WO2016110835A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2587718 A1 20130501; **EP 2587718 B1 20170426**; CN 103066683 A 20130424; CN 103066683 B 20170721; JP 2013118622 A 20130613; JP 6202801 B2 20170927; KR 101900869 B1 20181108; KR 20130045211 A 20130503; US 2013113275 A1 20130509; US 9660456 B2 20170523

DOCDB simple family (application)

EP 12007313 A 20121024; CN 201210410477 A 20121024; JP 2012233880 A 20121023; KR 20120118428 A 20121024; US 201213657412 A 20121022